django

" The web framework for perfectionists with deadlines. "

About the Consultant

An expert from IT Industry will be the main consultant on this Workshop/In-house Training, he has 5+ years of hands-on experience in software development, automation, managing cloud infrastructure, implementing new tools/technologies and server management (Linux and Windows).

I worked for **Airbus, Ozdingo, Cedcoss** etc and worked with leading organizations like **Paypal, NAB** (National Australian Bank), **Shopify**, **NHAI** and **NPCI** (HDFB, SBI, IDFC, Axis Bank). He graduated (B-Tech) from MCGV University and is pursuing post Graduation (**M-Tech**) from **IIT Patna**.

I am here because i love to share knowledge.

Hello !

I am Shubham Mishra

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Introduction

➔ Django is pronounced JANG-oh. The "D" is silent.

➔ Django is a Python-based free and open-source web framework.

➔ It is based on MVT (Model View Template) design pattern.

➔ The Django is very demanding due to its rapid development feature.

➔ It takes less time to build application after collecting client requirement.

➔ Django is designed in such a manner that it handles much of configure things automatically, so we can focus on application development only.

History

- Django was design and developed by Lawrence journal in 2003.

- Publicly released under BSD license in July 2005.

- Currently, DSF (Django Software Foundation) maintains its development and release cycle.

- Named after famous Guitarist "Django Reinhardt" (1930s to early 1950s). He's considered one of the best guitarists of all time.

- Developed by Adrian Holovaty and Jacob Kaplan-moss at World Online News for efficient development

- Open sourced in 2005.

Django Reinhardt

Popularity

Django is widely accepted and used by various well-known sites such as:

- Instagram

- Mozilla

- Disqus

- Pinterest

- Bitbucket

- The Washington Times

- Facebook

Features of Django

Neptune is the farthest
from the Sun

Rapid Development

Open Source

Secure

django

Vast and Supported
Community

Scalable (quickly and flexibly)

Fully loaded

Versatile (different-different domains)
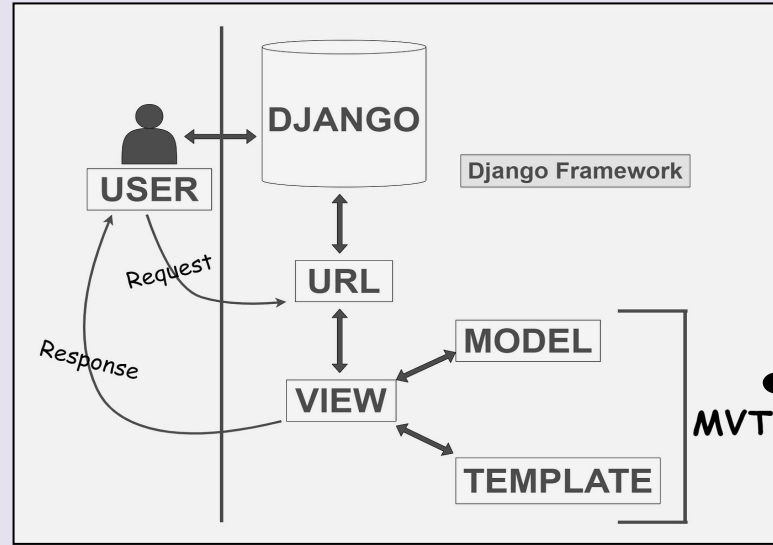
Why Django

- MVT design pattern

- Provides auto generated web admin to ease the website administration

- Provides pre-packaged API for common user tasks

- Provides you template system to define HTML template for your web pages to avoid code duplication

- Allows you to define what URL be for a given Function

- Allows you to separate business logic from the HTML

- Everything is in python (schema/settings)

MVT
Design Pattern

DJANGO

USER

Django Framework

Request

Response

URL

MODEL

VIEW

TEMPLATE

MVT

MVT Architecture:-

▶ Models   :- Describes your data structure/database schema

▶ Views   :- Controls what a user sees, Based on logics

▶ Templates   :- How a user sees it

▶ Controller   :-The Django Framework

Prerequisites for
Django Development Env

1. Python 3 and Pip3 set up with a virtual programming environment.
2. Django Framework
3. IDE - VS code, Pycharm etc.
4. Web browser - Chrome, Firefox, Safari etc.
5. Basic knowledge of using a terminal or command line.

1. Django Installation:- pip3 install Django==4.1.4

2. Check Version:- python3 -m django --version

3. Create first Django project:- django-admin startproject mysite

4. Start Project:-

   1. cd mysite

   2. python3 manage.py runserver

5. Visit:- http://127.0.0.1:8000/

6. Creating a App:- python3 manage.py startapp Demo
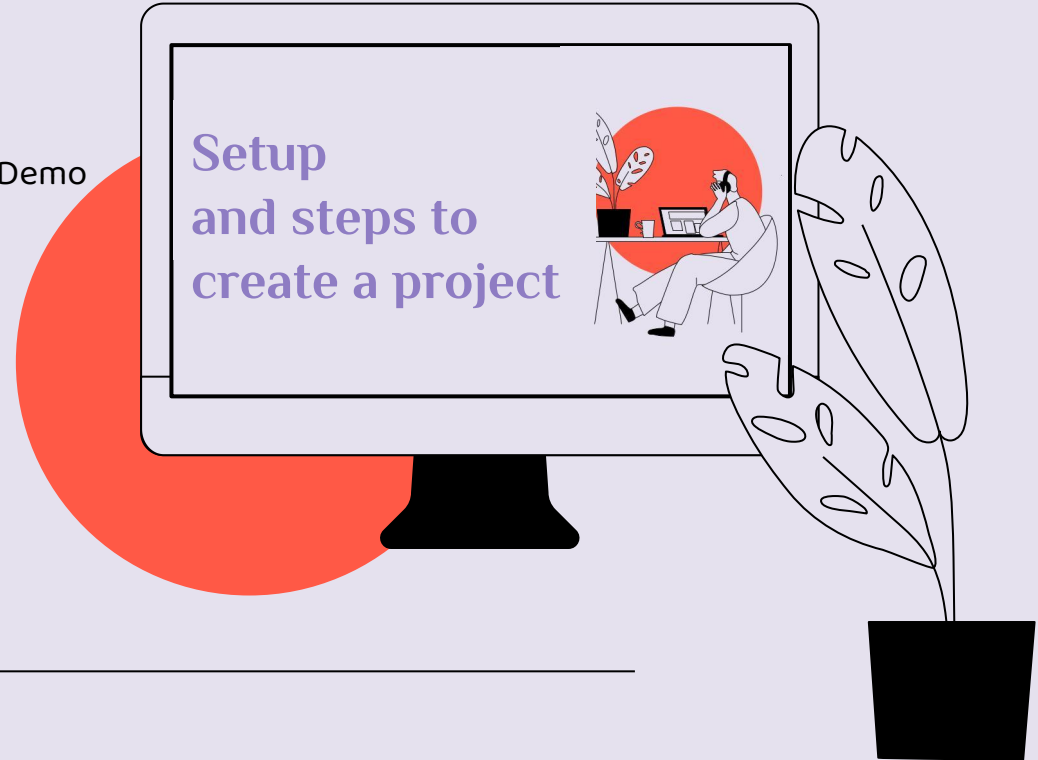
Setup and steps to create a project

For more

Download:-
https://www.djangoproject.com/download/
Documentation:-
https://docs.djangoproject.com/en/4.1/intro/tutorial01

Thanks!

Any questions?

You can find us at :-

Email :- hr@mykss.in

Contact No :- +91-9713161487, +91-7651964476

And that brings us to the end of the PPT. I'd like to thank you for your time and attention today.

Alternative resources

1952

Year in which the first programming language was configured

03

Conclusion

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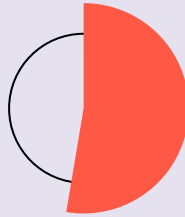
Programming language data

25%

Venus

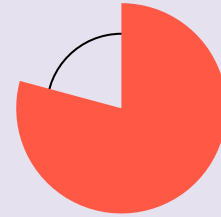Venus is the second planet from the Sun

59%

Mars

Despite being red, Mars is a cold place

83%

Saturn

Saturn is a gas giant and has several rings